

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 February 2005 (10.02.2005)

PCT

(10) International Publication Number
WO 2005/012914 A2

(51) International Patent Classification⁷: G01N 33/68, (74) Agents: HILL, Christopher, Michael et al.; Page White & Farrer, 54 Doughty Street, London WC1N 2LS (GB).

(21) International Application Number:
PCT/GB2004/003139

(22) International Filing Date: 22 July 2004 (22.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
0317123.8 22 July 2003 (22.07.2003) GB

(71) Applicants (for all designated States except US): XZIL-LION GMBH & CO. KG [DE/DE]; Industriepark Hochst, Building G865, D-65926 Frankfurt am Main (DE). PROTEOME SCIENCES PLC [GB/GB]; Coveham House, Downside Bridge Road, Cobham, Surrey KT11 3EP (GB).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SCHAFER, Jürgen [DE/DE]; Am Langen Weg 2, D-36341 Lauterbach (DE). HAMON, Christian [FR/DE]; Luthmerstrasse 49, D-65934 Frankfurt am Main (DE). SCHWARZ, Josef [DE/DE]; Voelklinger Weg 7, D-60529 Frankfurt am Main (DE). PEARCE, Christopher [GB/GB]; Coveham House, Downside Bridge Road, Cobham, Surrey KT11 3EP (GB).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: CHARACTERISING POLYPEPTIDES

(57) Abstract: Provided is a method for characterising an analyte by matrix assisted laser desorption ionisation (MALDI) mass spectrometry, which method comprises: (a) labelling the analyte with a light-absorbing label that absorbs light at a pre-determined frequency, to form a labelled analyte; (b) embedding the labelled analyte in a matrix formed from at least one compound that absorbs light, to form an embedded labelled analyte; (c) desorbing the embedded labelled analyte by exposing it to light having the pre-determined frequency, to form a desorbed analyte; and (d) detecting the desorbed analyte by mass spectrometry to characterise the analyte; wherein the light absorbing label comprises a fluorophore moiety, and wherein prior to detecting by mass spectrometry, the analyte is selected for detection on the basis of its fluorophore moiety.

WO 2005/012914 A2